

### Flowfresh ESD HF



#### Description

Flowfresh ESD HF is a 6-9mm heavy duty, chemical resistant antimicrobial treated antistatic polyurethane resin floor screed.

#### Uses

To provide an antistatic heavy duty, thermal shock resistant, hard-wearing floor finish with exceptional chemical resistance. Typical areas for use are wet and dry process areas where the floor is subjected to heavy traffic, impact and chemical attack.

#### Benefits

- Meets BS 2050 Anti Static requirements
- Contains Polygiene, an antimicrobial additive based on silver ion technology
- Very high chemical resistance
- Easy to clean and sterilise anti-slip surface, minimal joints
- Steam cleanable
- Non tainting, non dusting
- High abrasion resistance
- Withstands high mechanical stress
- Good alternative to expensive acid resistant tiles
- Low odour during application
- Positive slip resistance

#### Standard Colour Chart



Rich Cream



Warm Buff



Coral Red



Clay

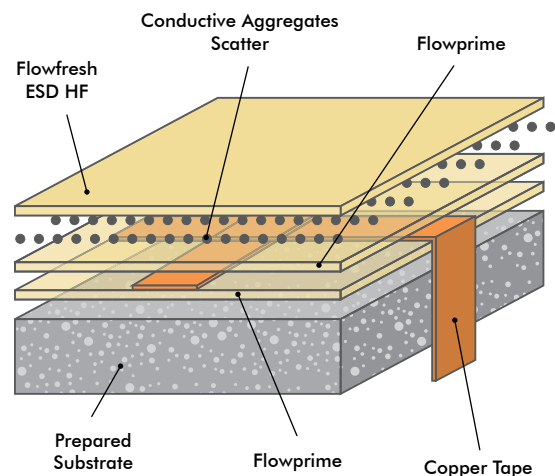


Pewter Grey



Signal Green

#### System Design



## Model Specification

System: Flowfresh ESD HF  
Finish: Matt  
Thickness: 6mm  
Preparatory work and application in accordance with manufacturer's instructions.

## Substrate Requirements

Concrete or screed substrate should be a minimum of 25N/mm<sup>2</sup>, free from laitance, dust and other contamination. The substrate should be surface dry and free from rising damp and ground water pressure.

## Products Included in this System

Flowprime  
Copper Tape (conductive grid of 12mm wide copper tape)  
Flowprime  
Conductive Aggregates Scatter  
Flowfresh ESD HF

Detailed application instructions are available upon request.

## Installation Service

The installation should be carried out by a Flowcrete approved applicator with a documented quality assurance scheme. Obtain details of our approved contractors by contacting our customer service team or enquiring via our website at [www.flowcreteasia.com](http://www.flowcreteasia.com)

## Environmental Considerations

The finished system is assessed as non-hazardous to health and the environment. The long service life and seamless surface reduce the need for repairs, maintenance and cleaning. Environmental and health considerations are controlled during manufacture and application of the products by Flowcrete staff and fully trained and experienced contractors.

## Important Note

Flowcrete's products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which can be obtained on request.

## Microbial / Fungal Resistance

The Polygiene® antimicrobial additive incorporated into Flowfresh ESD HF provides control of most bacteria and fungi which come into contact with the floor.

## Conductive Tape

A network of 12 mm wide, self-adhesive, conductive copper tape is always recommended in combination with any Flowcrete antistatic flooring system. The copper tape must be applied directly onto the cured Flowprime, maximum 1 metre in from the perimeter of the application. Further, strips of tape should be applied within this area every 3 metres. Special attention should be paid to tape areas passing over expansion or bay joints to ensure permanent electrical continuity. The applied tape should be secure and fully bonded to a confirmed earth point.

## Colour Stability

Flowfresh ESD HF is not colour fast and may change colour over time (exhibits a yellowing effect). Colour change depends on the UV light and heat levels present and hence the rate of change cannot be predicted. This is more noticeable in light colours and blues but does not compromise the product's chemical resistance or physical characteristics. Consult our Technical Department for UV light stable specification.

## Technical Information

The figures that follow are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity.

|                       |   |
|-----------------------|---|
| Electrical Resistance | 5 x 10 <sup>4</sup> – 1 x 10 <sup>8</sup> Ohms (to BS 2050)                             |
| Fire Resistance       | B <sub>FL</sub> - s1 (EN 13501-1)   |
| Slip Resistance       | Dry > 40,<br>Wet depends on specification (in accordance with HSE and UKSRG guidelines) |

The slipperiness of flooring materials can change significantly, due to the installation process, after short periods of use, due to inappropriate maintenance, longer-term wear and/or surface contaminants (wet or dry)

Textured systems are recommended to meet slip resistance value requirements for wet conditions and/or surface contaminants (wet or dry) - please contact our Technical Advisors for further details and specifications.

|                        |   |
|------------------------|---|
| Temperature Resistance | Tolerant up to 120°C intermittent spillages or consistent 105°C dry heat (at 9mm thickness)           |
| Water Permeability     | Nil – Karsten test (impermeable)  |
| Chemical Resistance    | Contact Technical Department<br>Excellent resistance to sugars and most acids (organic and inorganic) |
| Abrasion Resistance    | Taber Abrader:<br>0.12g loss per 1000 cycles (1kg load using CS17 wheels)                             |
| Compressive Strength   | >50 N/mm <sup>2</sup> (EN 13892-2)  |
| Flexural Strength      | 20 N/mm <sup>2</sup> (EN 13892-2)   |
| Tensile Strength       | 10 N/mm <sup>2</sup> (BS 6319)  |
| Bond Strength          | Greater than cohesive strength of 25 N/mm <sup>2</sup> concrete. >1.5 MPa.                            |

## Speed of Cure

|                    | 10°C    | 20°C   | 30°C   |
|--------------------|---------|--------|--------|
| Light Traffic      | 36 hrs  | 24 hrs | 12 hrs |
| Full traffic       | 72 hrs  | 48 hrs | 24 hrs |
| Full chemical cure | 10 days | 7 days | 6 days |

## Customer Service

For more information regarding this product please contact your local Flowcrete office:

|                     |                  |
|---------------------|------------------|
| Flowcrete Asia      | +60 3 6277 9575  |
| Flowcrete Hong Kong | +852 2795 0478   |
| Flowcrete China     | +86 10 8472 1912 |
| Flowcrete Thailand  | +66 2539 3424    |
| Flowcrete Indonesia | +62 21 252 3201  |
| Flowcrete Vietnam   | +84 8 6287 0846  |

Visit our website for more locations.

## Aftercare - Cleaning and Maintenance

Clean regularly using a single or double headed rotary scrubber drier in conjunction with a mildly alkaline detergent.

## Further Information

To ensure you are specifying a fit for purpose flooring for your project please consult our Technical Advisors on the numbers above or visit our website to register your interest in specifying one of the most durable floors on the market.